



REPLACEMENT SHEET

U.S. Serial No. 10/019,661 Sheet 1 of 7
Applicants: Lian-Hui ZHANG, et al.
Attorney Docket: 2977-127

10'
CK 10' 20' 30' 40' 50' 60'

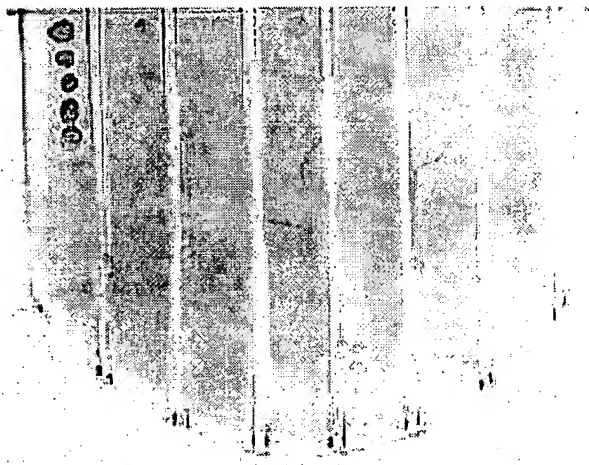


FIG. 1



REPLACEMENT SHEET

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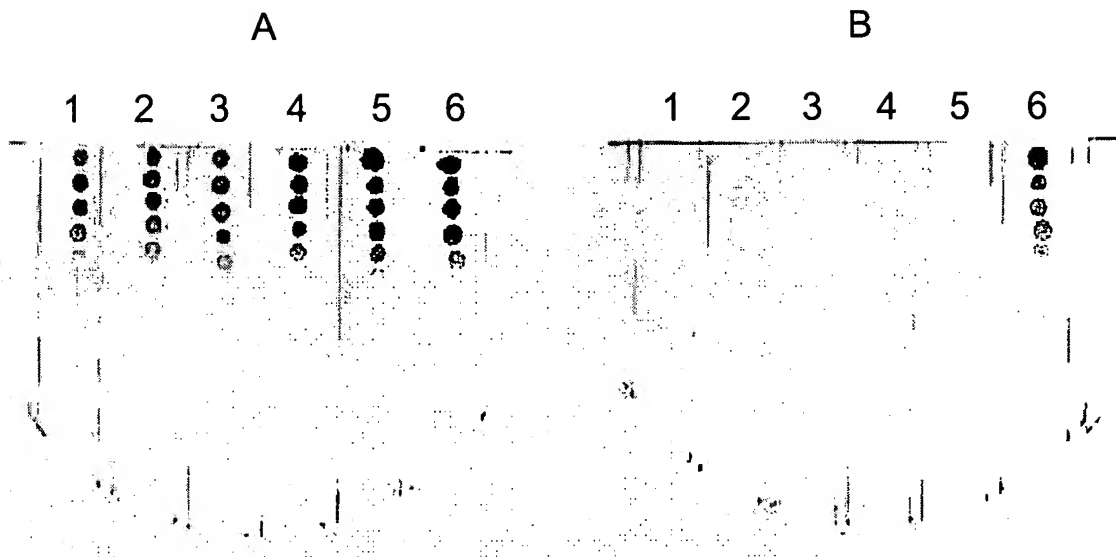


FIG.2



REPLACEMENT SHEET

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Clone Activity

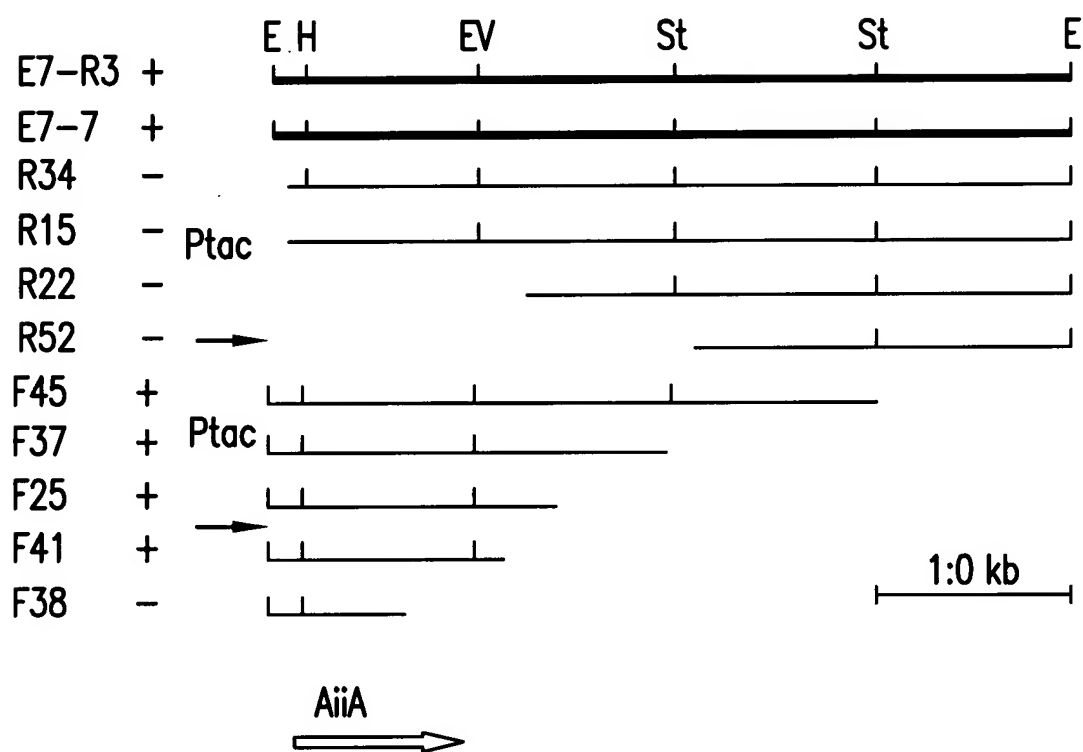


FIG.3



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..ctttactgtattgttttattcaaaaactaaatgtaaagggtggatacata -1
ATGACAGTAAAGAAGCTTTATTTTCGTCCCAGCAGGTCGTTGTATGTTGGA 50
TCATTCGTCTGTTAATAGTACATTAACACCAGGAGAATTATTAGACTTAC 100
CGGTTTGGTGTTATCTTTTGGAGACTGAAGAAGGACCTATTTTAGTAGAT 150
ACAGGTATGCCAGAAAGTGCAGTTAATAATGAAGGTCTTTTAAACGGTAC 200
ATTTGTCTGAAGGGCAGGTTTTACCGAAAATGACTGAAGAAGATAGAATCG 250
TGAATATTTTAAAACGGGTTGGTTATGAGCCGGAAGACCTTCTTTATATT 300
ATTAGTTCTCACTTGCATTTTGATCATGCAGGAGGAAATGGCGCTTTTAT 350
AAATACACCAATCATTGTACAGCGTGCTGAATATGAGGCGGCGCAGCATA 450
GCGAAGAATATTTGAAAGAATGTATATTGCCGAATTTAACTACAAAATC 500
ATTGAAGGTGATTATGAAGTCGTACCAGGAGTTCAATTATTGCATACACC 550
AGGCCATACTCCAGGGCATCAATCGCTATTAATTGAGACAGAAAAATCCG 600
GTCCTGTATTATTAACGATTGATGCATCGTATACGAAAGAGAATTTTGAA 650
AATGAAGTGCCATTTGCGGGATTTGATTGAGAATTAGCTTTATCTTCAAT 700
TAAACGTTTAAAAGAAGTGGTGATGAAAGAGAAGCCGATTGTTTTCTTTG 750
GACATGATATAGAGCAGGAAAGGGGATGTAAAGTGTTCCCTGAATATATA 800
TAGtacaaaaagtcatgagcttattcgctcatgacttttttcgtttaaatg 850
Attttttttaataagttataaacttttttagaactatcttcatttaattg 900
Atagtacgtaaggtttacatcattaggagtatcttggtgagcaatcatca 950
Cttcgttactgtgatggtcaactacccatatgaaatattttttataagtc 1000
Ccatcctcgaaagtaatccacatatcacagtctattaaatctgatccttc 1050
Ttcattctaattgtaattttccttttttgccggtatccatactgttaatga 1100
Atgtttttaattcatctgtttttgtgagaaagatatccttttttggttta 1150
Attgactcgacatgtatatctttttatttctgtttttcctaaaaagacagg 1200
gggctcatttgggtctctttgagt 1222

FIG.4A



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MTVKKLYFVPAGRCMLDHSSVNSTLTPGELLDLPVWCYLLETEEGPILVD 50
TGMPE SAVNNEGLFNGTFVEGQVLPKMTEEDRIVNILKRVGYEPEDLLYI 100
ISSHLHFDHAGGNGAFINTPIIVQRAEYEAQHSSEYLKECILPNLNYKI 150
IEGDYEVVPGVQLLHTPGHTPGHQSLLIETEKSGPVLLTIDASYTKENFE 200
NEVPFAGFDSELALSSIKRLKEVVMKEKPIVFFGHDIEQERGCKVFPEYI 250

FIG.4B

Asp: [LIVMFGAC]-[LIVMTADN]-[LIVFSA]-D-[ST]-G-[STAV]-
AiiA: I₄₇ L V D T G M

Asp: [STAPDENQ]-X-[LIVMFSTNC]-X-[LIVMFGTA]
AiiA: P E S A V₅₈

FIG.5



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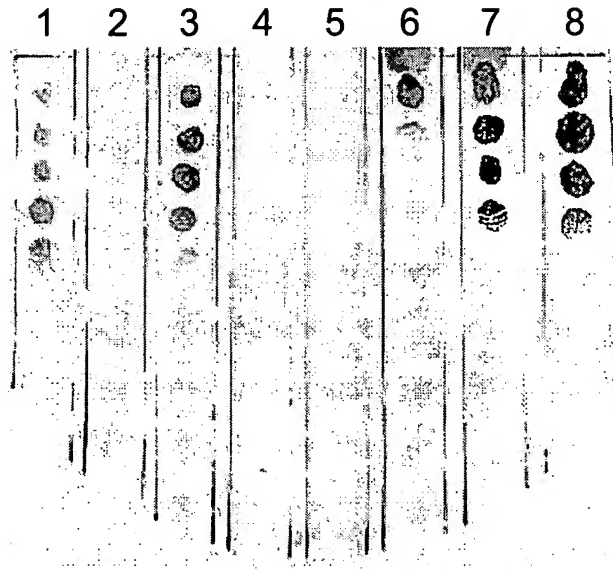


FIG. 6

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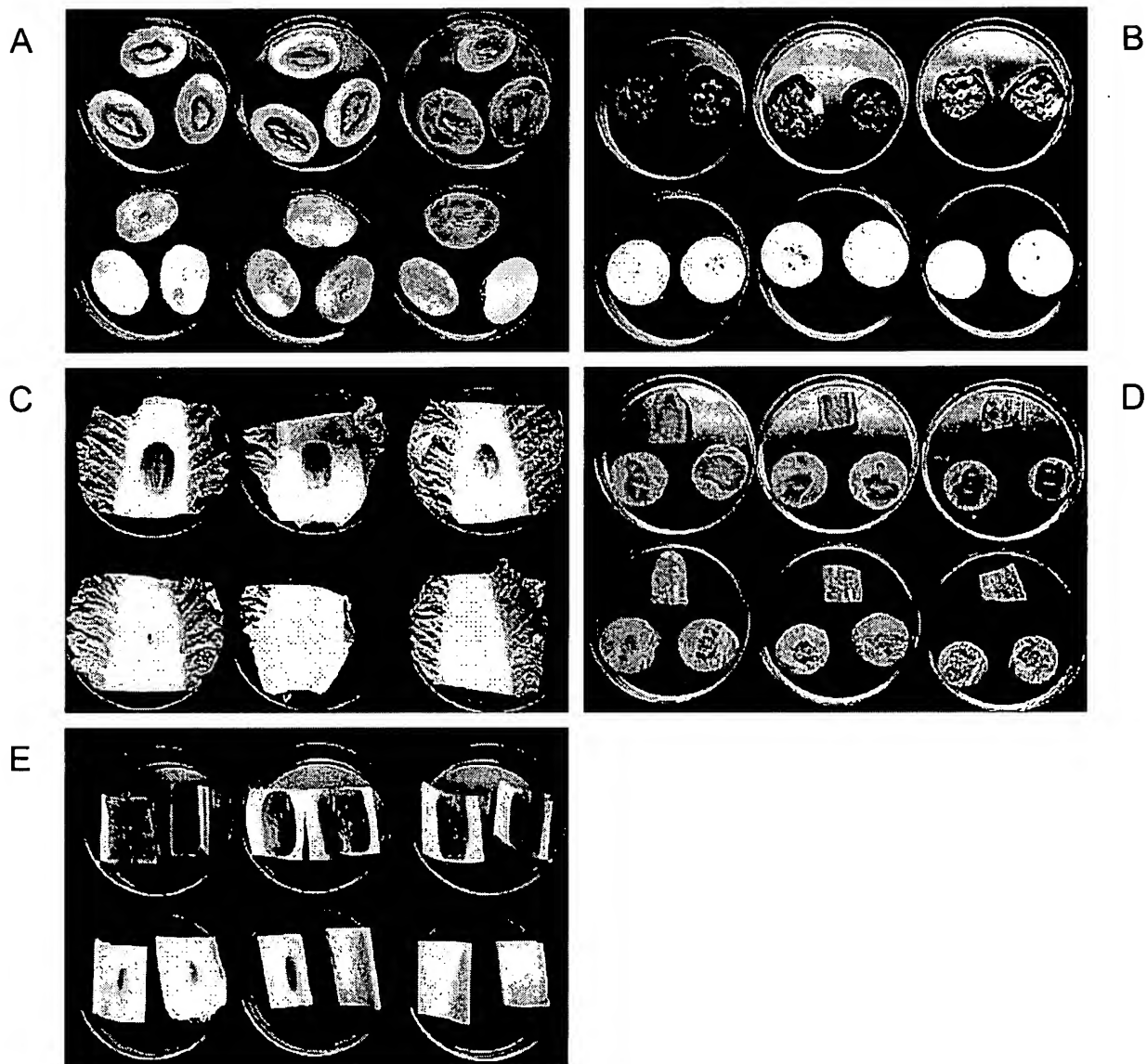


FIG.7